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| APPLICATION NO.                          | FILING DATE                           | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------------------|---------------------------------------|----------------------|---------------------|------------------|
| 10/789,188                               | 02/27/2004                            | Ulf R. Hanebutte     | INT.P013            | 6945             |
|                                          | 45512 7590 10/18/2007<br>LAWRENCE CHO |                      | EXAM                | INER             |
| C/O PORTFOLIOIP                          |                                       | LE, JOHN H           |                     |                  |
| P. O. BOX 52050<br>MINNEAPOLIS, MN 55402 |                                       |                      | ART UNIT            | PAPER NUMBER     |
| •                                        | •                                     |                      | 2863                |                  |
|                                          |                                       | ·                    |                     |                  |
| 1                                        | •                                     |                      | MAIL DATE           | DELIVERY MODE    |
|                                          |                                       |                      | 10/18/2007          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| •                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Application No.                                                                                                                       | Applicant(s)                                                                                                         |  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--|
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10/789,188                                                                                                                            | HANEBUTTE, ULF R.                                                                                                    |  |
| •                                                    | Office Action Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Examiner                                                                                                                              | Art Unit                                                                                                             |  |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | John H. Le                                                                                                                            | 2863                                                                                                                 |  |
|                                                      | The MAILING DATE of this communication app                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                       |                                                                                                                      |  |
| Period fo                                            | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |                                                                                                                      |  |
| WHIC<br>- Exte<br>after<br>- If NC<br>- Failu<br>Any | CORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period ourse to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUN<br>36(a). In no event, however, may<br>will apply and will expire SIX (6) Mo<br>e, cause the application to become | NICATION.  a reply be timely filed  ONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133). |  |
| Status                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                       |                                                                                                                      |  |
| 1)⊠                                                  | Responsive to communication(s) filed on 23 Ju                                                                                                                                                                                                                                                                                                                                                                                                                                    | uly 2007.                                                                                                                             |                                                                                                                      |  |
| 2a)⊠                                                 | This action is <b>FINAL</b> . 2b) This action is non-final.                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                       |                                                                                                                      |  |
| 3)[                                                  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                       |                                                                                                                      |  |
|                                                      | closed in accordance with the practice under E                                                                                                                                                                                                                                                                                                                                                                                                                                   | =x parte Quayle, 1935 C                                                                                                               | .D. 11, 453 O.G. 213.                                                                                                |  |
| Disposit                                             | ion of Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |                                                                                                                      |  |
| 4)🖂                                                  | Claim(s) <u>1-6,12-15,17-20,24,31-35 and 39-47</u>                                                                                                                                                                                                                                                                                                                                                                                                                               | is/are pending in the app                                                                                                             | olication.                                                                                                           |  |
|                                                      | 4a) Of the above claim(s) <u>7-11,16,21-23,25-30</u>                                                                                                                                                                                                                                                                                                                                                                                                                             | and 36-38 is/are withdra                                                                                                              | awn from consideration.                                                                                              |  |
| _                                                    | Claim(s) <u>1-6,12-15,17-20,24 and 31-35</u> is/are                                                                                                                                                                                                                                                                                                                                                                                                                              | allowed.                                                                                                                              |                                                                                                                      |  |
| ·                                                    | Claim(s) <u>39-43,45 and 46</u> is/are rejected.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |                                                                                                                      |  |
| · ·                                                  | Claim(s) 44 and 47 is/are objected to.                                                                                                                                                                                                                                                                                                                                                                                                                                           | ur alaatian raquiramant                                                                                                               |                                                                                                                      |  |
| 8)□                                                  | Claim(s) are subject to restriction and/o                                                                                                                                                                                                                                                                                                                                                                                                                                        | or election requirement.                                                                                                              |                                                                                                                      |  |
| Applicat                                             | ion Papers                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                       |                                                                                                                      |  |
| 9)[                                                  | The specification is objected to by the Examine                                                                                                                                                                                                                                                                                                                                                                                                                                  | er.                                                                                                                                   |                                                                                                                      |  |
| 10)⊠                                                 | The drawing(s) filed on 27 July 2004 is/are: a)                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                                                                                                                     | •                                                                                                                    |  |
|                                                      | Applicant may not request that any objection to the                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |                                                                                                                      |  |
| 44)                                                  | Replacement drawing sheet(s) including the correct                                                                                                                                                                                                                                                                                                                                                                                                                               | ·                                                                                                                                     |                                                                                                                      |  |
| 11)[                                                 | The oath or declaration is objected to by the Ex                                                                                                                                                                                                                                                                                                                                                                                                                                 | xaminer. Note the attach                                                                                                              | ed Office Action of form PTO-152.                                                                                    |  |
| Priority (                                           | under 35 U.S.C. § 119                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                       |                                                                                                                      |  |
| •                                                    | Acknowledgment is made of a claim for foreign                                                                                                                                                                                                                                                                                                                                                                                                                                    | priority under 35 U.S.C.                                                                                                              | . § 119(a)-(d) or (f).                                                                                               |  |
| a)                                                   | ☐ All b)☐ Some * c)☐ None of:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |                                                                                                                      |  |
|                                                      | 1. Certified copies of the priority document                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                       | Application No.                                                                                                      |  |
|                                                      | 2. Certified copies of the priority document                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                       |                                                                                                                      |  |
|                                                      | <ol> <li>Copies of the certified copies of the prio<br/>application from the International Bureau</li> </ol>                                                                                                                                                                                                                                                                                                                                                                     | •                                                                                                                                     | en received in this National Stage                                                                                   |  |
| * (                                                  | See the attached detailed Office action for a list                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                       | ot received.                                                                                                         |  |
|                                                      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·                                                                                                                                     |                                                                                                                      |  |
| Attachmen                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>-</b>                                                                                                                              |                                                                                                                      |  |
|                                                      | ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                       | v Summary (PTO-413)<br>o(s)/Mail Date                                                                                |  |
| 3) Infor                                             | mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       | f Informal Patent Application                                                                                        |  |

## Response to Amendment

1. This office action is in response to applicant's amendment received on 07/23/2007.

Claims 1, 13, 15, and 18 have been amended.

Claims 7-11, 16, 21-23, 25-30, and 36-38 have been cancelled.

Claims 39-47 have been added.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 39-42 and 45-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thelander et al. (US 2003/0009705) in view of Potega (US 2003/0085621).

Regarding claim 39, Thelander et al. disclose a power evaluation unit comprising: a data retriever unit (client service process 305) to retrieve power data (e.g. [0061]) to an operating system (301) by a battery (e.g. [0061], [0083], computer 205 is operating from battery power); and a data processor unit (microcontroller) to determine a net power consumption of an application from the power data (e.g. [0060]).

Thelander et al. fail to teach wherein the power data includes power capacity and drain rate data from a battery.

Art Unit: 2863

Potega teaches the power data includes power capacity (e.g. [0149]) and drain rate data from a battery (e.g. [0186]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform the power data includes power capacity and drain rate data from a battery as taught by Potega in a method for managing power data of Thelander et al. for the purpose of providing a intelligent power supply (Potega, [0081]).

Regarding claim 40, Thelander et al. fail to teach a data evaluation unit to determine a systematic error associated with a run-time for the power data.

Potega discloses a data evaluation unit to determine a systematic error associated with a run-time for the power data (e.g. [0118]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform the a data evaluation unit to determine a systematic error associated with a run-time for the power data as taught by Potega in a method for managing power data of Thelander et al. for the purpose of providing a intelligent power supply (Potega, [0081]).

Regarding claim 41, Potega discloses the data evaluation unit determines a new run-time that reduces the systematic error (e.g. [0489]).

Regarding claim 42, Thelander et al. disclose a method for managing power data ([0008]), comprising: determining an amount of power used by a system running an application over a first time period from an operating system (e.g. [0056], [0058]-[0060]) by integrating a drain rate of the battery over the time period (e.g. Fig.4, [0044]-[0045]); determining an amount of power used by the

Art Unit: 2863

system in a baseline state over a second time period from the operating system (e.g. [0056], [0058]-[0060], [0093]); and determining a net power consumption of the application from the amount of power used for the system running the application and the amount of power used by the system in the baseline state (e.g. [0056], [0093]); generating an indication to of the net power consumption of the application to user (e.g. [0056]).

Thelander et al. fail to disclose determining an amount of power used by a system running an application over the time period from power data supplied to an operating system by a battery over the time period, wherein the power data includes power capacity and drain rate data from a battery.

Potega teaches steps of determining an amount of power used by a system running an application over the time period from power data supplied to an operating system by a battery over the time period (computer running power management software monitors status of battery and control power supplied, [282]-[285], [183]-187]), the power data includes power capacity (e.g. [0149]) and drain rate data from a battery (e.g. [0186]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform steps of determining an amount of power used by a system running an application over the time period from power data supplied to an operating system by a battery over the time period, wherein the power data includes power capacity and drain rate data from a battery as taught by Potega in a method for managing power data of Thelander et al. for the purpose of providing a intelligent power suppliy (Potega, [0081]).

Art Unit: 2863

Regarding claim 45, Thelander et al. disclose determining an amount of power used by a system running an application over a first time period from an operating system (e.g. [0056], [0058]-[0060]) by integrating a drain rate of the battery over the time period (e.g. Fig.4, [0044]-[0045]).

Regarding claim 46, Thelander et al. disclose determining an amount of power used by the system in a baseline state over a second time period from the operating system (e.g. [0056], [0058]-[0060], [0093]) comprise integrating a drain rate of the battery over the second time period (e.g. Fig.4, [0044]-[0045]).

4. Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thelander et al. (US 2003/0009705) in view of Potega (US 2003/0085621) as applied to claim 42 above, and further in view of Culbert et al. (US 5,600,841).

Regarding claim 43, Potega disclose determining a systematic error of the power data (e.g. [0118], [0273]-[0275]) used for determining the amount of power used by the system running the application (computer running power management software monitors status of battery and control power supplied, [282]-[285], [183]-187]).

The combination of Thelander et al. and Potega discusses supra, discloses the claimed invention except generating an indication to the user if the systematic error exceeds a predetermined threshold.

Culbert et al. teach generating an indication to a user if the systematic error exceeds a predetermined value (e.g. Col.8, lines 8-12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform step of generating an indication to a user if the

Art Unit: 2863

systematic error exceeds a predetermined value as taught by Culbert et al. in a method for managing power data of Thelander et al. in view of Potega for the purpose of providing a system for controlling power in electronic devices (Culbert et al., Col.1, lines 11-14).

# Allowable Subject Matter

- 5. Claims 1-6, 12, 13-15, 17, 18-20, 24, 31-35 are allowed.
- 6. Claims 44 and 47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The combination as claimed wherein determining a systematic error of the power data used for determining the amount of power used by the system running the application by dividing an update granularity of the power data by the first time period (claim 1, claim 18, claim 44) is not disclosed, suggested, or made obvious by the prior art of record.

The combination as claimed wherein determining systematic error of an update frequency for the power data; generating a new run-time to run the application and displaying the new run-time to a user if the systematic error of the update frequency exceeds a threshold value; and determining a net power consumption of the application from the power data if the systematic error of the

Art Unit: 2863

update frequency exceeds the threshold value (claim 13) is not disclosed, suggested, or made obvious by the prior art of record.

The combination as claimed wherein determining a net power consumption of the application from the amount of power used by the system running the application and the amount of power used by the system in the baseline state by computing a first net power value using power capacity data and a second net power data using drain rate data; and generating an indication to a user if the difference between the first and the second net power values exceeds a threshold value (claim 31) is not disclosed, suggested, or made obvious by the prior art of record.

The combination as claimed wherein determining the net power consumption of the application comprises subtracting the amount of power used by the system in the baseline state over the second time period from the amount of power used by the system running the application over the first time period. (claim 47) is not disclosed, suggested, or made obvious by the prior art of record.

#### Response to Arguments

7. Applicant's arguments filed 07/23/2007 have been fully considered but they are not persuasive.

-Applicant argues that the prior did not teach "wherein the power data includes power capacity and drain rate data from a battery" as cited in claims 39 and 42.

Examiner position is that Potega teaches the power data includes power capacity (e.g. [0149]) and drain rate data from a battery (e.g. [0186]).

Art Unit: 2863

-Applicant argues that the prior did not teach, "generating an indication to a user if the systematic error exceeds a predetermined value" as cited in claim 43.

Examiner position is that Culbert et al. teach generating an indication to a user if the systematic error exceeds a predetermined value (e.g. Col.8, lines 8-12).

-Applicant argues that the prior did not teach, "determining a systematic error of the power data supplied to an operating system by a battery".

Examiner position is that steps of determining a systematic error of the power data supplied to an operating system by a battery is not cited in claims 39-43 and 45-46.

#### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**.

See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will

Art Unit: 2863

the statutory period for reply expire later than SIX MONTHS from the date of this final action.

#### **Contact Information**

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H. Le whose telephone number is 571 272 2275. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571 272 2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

October 6, 2007

John Barkov Supervisory Patent Examiner Technology Center 2800